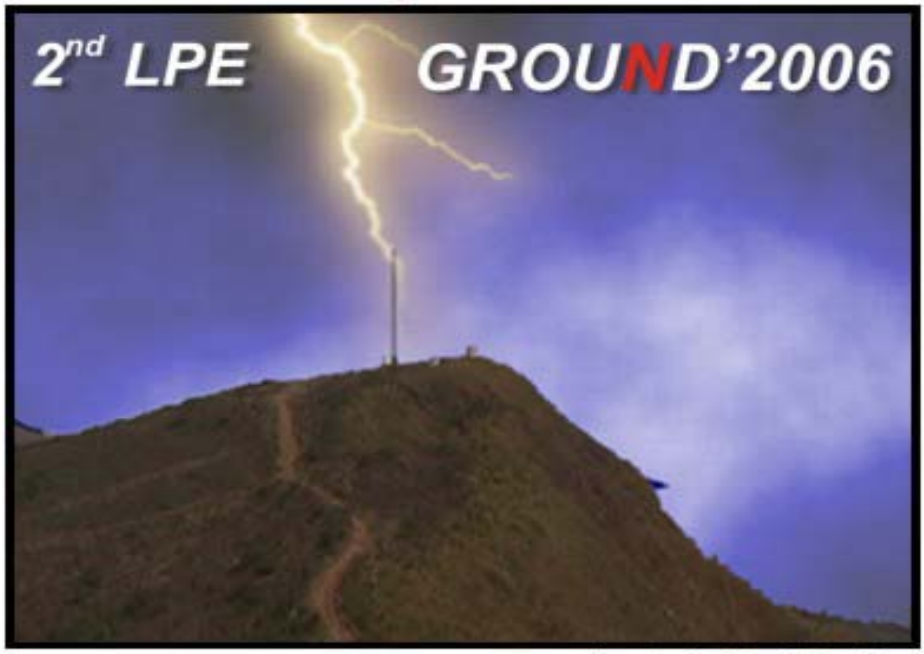
GROUND'2006
International Conference on Grounding and Earthing

&

2nd LPE
International Conference on Lightning Physics and Effects

Two joint events



Morro do Cachimbo Station - Brazil

November, 26th to 29th, 2006
Maceió, BRAZIL.

GROUD'2006
and
2nd LPE

International Conference on Grounding and Earthing
&
2nd international Conference on
Lightning Physics and Effects
Maceió – Brazil November, 2006

EVALUATION OF LIGHTNING CURRENTS ALONG ELEVATED STRUCTURES THROUGH THE USE OF PSPICE

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Abstract - This paper illustrates the use of the PSPICE computational tool for evaluating the current waveform along an elevated structure struck by lightning, considering the parameters of the system constituted by the lightning channel, structure and grounding. It aims at showing that the PSPICE tool can be employed to evaluate the characteristics of the "contaminated" current, i.e., the current affected by the reflections caused by the different values of the impedances of the lightning channel, structure and grounding and that could be effectively measured.